



KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE

(An Autonomous Institute under Kakatiya University, Warangal)

Opp : Yerragattu Gutta, Hasanparthy (Mandal), WARANGAL - 506 015, Telangana, INDIA.

काकतीय प्रद्योगिकी एवं विज्ञान संस्थान, वरंगल - ५२९ ०१५

కాకతీయ సాంకేతిక విజ్ఞాన శాస్త్ర విద్యాలయం, వరంగల్ - ౫౦౬ ౦౧౫

website: www.kitsw.ac.in

e-mail: principal.kitswgl@gmail.com

☎ : +91 870 2564888

Fax : +91 870 2564320

SCHEME OF INSTRUCTION & EVALUATION OF M.TECH (POWER ELECTRONICS)

With effect from the Academic Year 2014-15

www.kitsw.ac.in

KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE, WARANGAL
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
Scheme of Instruction and Evaluation for Two Year Post-graduate Programme
M.TECH.(POWER ELECTRONICS)

SEMESTER-I

Course Code	Course Name	Periods			Credits	Evaluation Scheme				
						CIE			ESE	Total Marks
		L	T	P		TA	MSE	Total		
P14PE101	Alternative Sources of Electrical Energy	3	1	0	4	15	25	40	60	100
P14PE102	Analysis of Power Electronic Converters	3	1	0	4	15	25	40	60	100
P14PE103	Modern Control Theory	3	1	0	4	15	25	40	60	100
P14PE104	Power Electronic Control of DC Drives	3	1	0	4	15	25	40	60	100
P14PE105	Elective -I	3	1	0	4	15	25	40	60	100
P14PE106	Elective -II	3	1	0	4	15	25	40	60	100
P14PE107	Power Electronics Laboratory	0	0	3	2	40	-	40	60	100
P14PE108	Power Electronic Simulation Laboratory	0	0	3	2	40	-	40	60	100
P14PE109	Seminar	-	-	-	2	-	-	100	-	100
Total		18	6	6	30			420	480	900

Elective -I

P14PE105A High Voltage DC Transmissions
P14PE105B Design of Digital Systems
P14PE105C Optimization Techniques
P14PE105D Modeling and Simulation of Power Electronic Systems

Elective -II

P14PE106A Digital Signal Processor
P14PE106B Dynamics of Electrical Machines
P14PE106C Electro Magnetic Interference and Compatibility
P14PE106D Reliability Engineering

KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE, WARANGAL
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
Scheme of Instruction and Evaluation for Two Year Post-graduate Programme
M.TECH. (POWER ELECTRONICS)

SEMESTER-II

Course Code	Course Name	Periods			Credits	Evaluation Scheme				
						CIE			ESE	Total Marks
		L	T	P		TA	MSE	Total		
P14PE201	Power Electronic Control of AC Drives	3	1	0	4	15	25	40	60	100
P14PE202	Machine Modeling & Analysis	3	1	0	4	15	25	40	60	100
P14PE203	Advanced Power Electronics	3	1	0	4	15	25	40	60	100
P14PE204	Artificial Intelligence Applications in Electrical Engineering	3	1	0	4	15	25	40	60	100
P14PE205	Elective -III	3	1	0	4	15	25	40	60	100
P14PE206	Elective -IV	3	1	0	4	15	25	40	60	100
P14PE207	Electric Drives Laboratory	0	0	3	2	40	-	40	60	100
P14PE208	Alternative Sources of Electrical Energy Laboratory	0	0	3	2	40	-	40	60	100
P14PE209	Comprehensive Viva-Voce	-	-	-	2	-	-	-	100	100
Total		18	6	6	30			320	580	900

Elective -III

P14PE205A Digital Control Systems
P14PE205B Power Quality
P14PE205C Microprocessor and Microcontroller
P14PE205D Applications of Power Converters

Elective -IV

P14PE206A Electrical Machine Design
P14PE206B Electric Smart Grid
P14PE206C Digital Signal Processor Controlled Drives
P14PE206D Flexible AC Transmission Systems (FACTS)



DEPARTMENT OF ELECTRICAL&ELECTRONICS ENGINEERING
KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE:: WARANGAL - 15
(An Autonomous Institute under Kakatiya university, Warangal)

Scheme of Instruction and Evaluation for Two Year Postgraduate Programme
M.TECH. (POWER ELECTRONICS)

SEMESTER - III

Course Code	Course Name	Periods per Week	Credits	Evaluation Scheme				
				CIE			ESE	Total Marks
				TA	MSE	Total		
P18PE301	Industrial Training	08 weeks	4	100	-	100	-	100
P18PE302	Dissertation	16 weeks	8	100	-	100	-	100
	Total	24 weeks	12	200	-	200	-	200



DEPARTMENT OF ELECTRICAL&ELECTRONICS ENGINEERING
KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE:: WARANGAL - 15
(An Autonomous Institute under Kakatiya university, Warangal)

Scheme of Instruction and Evaluation for Two Year Postgraduate Programme
M.TECH. (POWER ELECTRONICS)

SEMESTER - IV

Course Code	Name of the Course	Periods per Week	Credits	Evaluation Scheme				
				CIE			ESE	Total Marks
				TA	MSE	Total		
P18PE401	Dissertation	24 weeks	12	40	-	40	60	100
	Total	24 weeks	12	40	-	40	60	100